

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A TM010 mode resonator device comprising:
a dielectric substrate;
electrodes formed on ~~both~~ opposite surfaces of the dielectric substrate, at least one of the electrodes being a circular electrode; and
a plurality of through holes ~~passing~~ extending through the dielectric substrate and ~~formed~~ arranged around the circular electrode ~~in~~ on the dielectric substrate, wherein an ~~the~~ inside of each through hole ~~having no~~ does not have an electrode ~~as no electrode formed portion and~~,
wherein the plurality of through holes are arranged around the circular electrode to form an open-circuited end for improving confinement of an electromagnetic field ~~is provided around the circular electrode by using the plurality of through holes.~~

2. (Currently amended) The ~~[[A]]~~ TM010 mode resonator device as claimed in claim 1, wherein, when ~~the~~ a wavelength of a resonance frequency in the dielectric substrate is represented by λ_g , ~~the~~ a space between neighboring through holes is ~~set to~~ be $\lambda_g/4$ or less.

3. (Currently amended) A TM010 mode resonator device comprising:
a dielectric substrate;
electrodes formed on ~~both~~ opposite surfaces of the dielectric substrate, at least one of the electrodes being a circular electrode; and
a plurality of strip electrodes disposed so as to radially extend around the ~~circular electrodes formed on both surfaces or the~~ at least one circular electrode formed on ~~one surface of~~ the dielectric substrate ~~so as to have~~ such that there is a space between ~~the circular electrodes or the~~ at least one circular electrode and the plurality of strip electrodes.

4. (Currently amended) The [[A]] TM010 mode resonator device as claimed in claim 3, wherein, when ~~the~~ a wavelength of a resonance frequency in the dielectric substrate is represented by λ_g , ~~the~~ a length of the radially extending strip electrode is $\lambda_g/4$ and the strip ~~electrode is~~ electrodes are rectangular in shape.

5. (Currently amended) The [[A]] TM010 mode resonator device as claimed in claim 3 [[or 4]], wherein ~~the~~ a space between neighboring strip electrodes is ~~set to be~~ $\lambda_g/4$ or less.

6. (Currently amended) An oscillator device ~~using~~ comprising:
a TM010 mode resonator device as claimed in ~~any one of claims 1 to 5~~ claim 1.

7. (Currently amended) A transmission and reception device ~~using~~ comprising:
a TM010 mode resonator device as claimed in ~~any one of claims 1 to 5~~ claim 1.

8. (New) The TM010 mode resonator device as claimed in claim 4, wherein a space between neighboring strip electrodes is $\lambda_g/4$ or less.

9. (New) An oscillator device comprising:
a TM010 mode resonator device as claimed in claim 3.

10. (New) A transmission and reception device comprising:
a TM010 mode resonator device as claimed in claim 3.